



AKASH SINGH

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EDUCATION

B. Tech. (COE)	2019-2023	Netaji Subhas University of Technology	7.1 CGPA
I.B. (Class XII)	2017	Global Indian International School, Singapore	80%
I.G.C.S.E (Class X)	2015	Global Indian International School, Singapore	80%

PROJECTS

TinyML –

(Feb 2022 – May 2022)

Produced a miniaturized version of a **deep learning** model to be deployed in any *Microcontroller*.

- Utilizes (but not limited to) **TensorFlow** and **TensorFlow Lite** to optimize the model.
- Uses *quantization* technique to optimize with minimum loss in accuracy.

Smart Home Automation –

(Dec 2021 – Jan 2022)

Led a group project to create a working prototype of an inexpensive Smart Home Automation.

- Formulated a machine-learning algorithm (*K - Means Clustering*) to automatically control multiple home appliances ; Used *Blynk* for remotely controlling the home appliances and data collection.
- Project selected for "*Confluence-2023: 13th International Conference on Cloud Computing, Data Science & Engineering*"

Sentiment Analysis –

(April 2021 – May 2021)

Worked on "mSWAN" (mood swing sentiment analysis) using NLP based on twitter post data from Kaggle and deployed on the flask.

- Performed VADER (Valence Aware Dictionary and sentiment) rule-based sentiment analysis.
- Used deep-learning for sentiment analysis.

SKILLS

- Programming Language** – C/C++, Python(basic)
- Data Science** – Tiny-ML, NLP, ML-Algo.
- Core** – OOPs, operating system, DBMS.

POSITIONS OF RESPONSIBILITY

Mentor : Tutored fresher students in guitar music and guided them on behalf of the music society of NSUT.

Sports Event : Conducted a Sports festival event for raising money for charity.

- Scheduled a successful event to raise more than 500\$ for charity.
- Invited schools and other sports organization to participate for the event.

EXTRA-CURRICULAR ACTIVITIES

Music : Currently in grade 5 in practical exams (*by the Associated Board Of The Royal School Of Music*) in Singapore.

Football: Participated in SINGA cup 2018 in U18 squad.